

Title (en)
METHOD AND DEVICE IN A RHEOMETER

Title (de)
VERFAHREN UND VORRICHTUNG FÜR EIN RHEOMETER

Title (fr)
PROCEDE ET DISPOSITIF POUR L'UTILISATION D'UN RHEOMETRE

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Application
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Abstract (en)
[origin: WO9749981A1] A method for determining the rheological properties of a sample substance by the use of a rheometer, wherein at least one element (10) having magnetoelastic characteristics is received in said sample substance. Element (10) is set into mechanical oscillation by the influence of a magnetic field, and its oscillation characteristics are determined by the effect exerted by the oscillation of element (10) on an outer magnetic field which, in turn, provides information regarding the rheological properties of the sample substance. The device comprises a receptacle (20) for the sample substance and element (10). An exciting coil array (12) is provided for exciting the element (10), thus causing it to oscillate mechanically; and a sensing coil array (13) is provided to register the effect of element (10) on an existing magnetic field image during oscillation of element (10). A calculation unit (16) is operatively engaged with the sensing coil array (13) for determining the oscillation characteristics of element (10) and therefrom deriving the rheological properties of the sample substance.

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